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NOTICE OF ALLOWANCE AND FEE(S) DUE

26119

7590

12/27/2007

KLARQUIST SPARKMAN LLP 121 S.W. SALMON STREET SUITE 1600 PORTLAND, OR 97204

EXA	MINER
PATEL	, JAYESH A
ART UNIT	PAPER NUMBER
2624	

DATE MAILED: 12/27/2007

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/622 284	07/18/2003	Pohsiang Hsu	3382-66128	4607

TITLE OF INVENTION: INTRAFRAME AND INTERFRAME INTERLACE CODING AND DECODING

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	03/27/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

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		ock 1 for any change of address)	Fee	(c) Transmittal This	certificate cannot be used	or domestic mailings of the for any other accompanying ent or formal drawing, must
121 S.W. SALM SUITE 1600	SPARKMAN LLI ON STREET	/2007 P		Cert	ificate of Mailing or Tran	
PORTLAND, OI	R 97204					(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/622,284	07/18/2003		Pohsiang Hsu	<u></u>	3382-66128	4607
		INTERFRAME INTERL	ACE CODING AND DEC	PREV, PAID ISSUE	FEE TOTAL FEE(S) DU	E DATE DUE
APPLN, TYPE	SMALL ENTITY					
nonprovisional	NO	\$1440	\$300	\$0 •	\$1740	03/27/2008
EXAM	INER	ART UNIT	CLASS-SUBCLASS	J		
PATEL, JA	AYESH A	2624	382-239000			
Address form PTO/SE "Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATA ess an assignee is ident h in 37 CFR 3.11. Com	" Indication form ned. Use of a Customer A TO BE PRINTED ON	2. For printing on the p (1) the names of up to or agents OR, alternati (2) the name of a sing registered attorney or 2 registered patent attolisted, no name will be THE PATENT (print or ty data will appear on the p T a substitute for filing an (B) RESIDENCE: (CIT)	o 3 registered patent vely, le firm (having as a agent) and the name meys or agents. If r printed. pe) petatent. If an assigne assignment.	member a 2 so of up to no name is 3 the is identified below, the	document has been filed for
Please check the appropri	iate assignee category or	categories (will not be pr	rinted on the patent):	Individual Co	rporation or other private g	roup entity Government
4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			☐ A check is enclosed. ☐ Payment by credit car	rd. Form PTO-2038	ge the required fee(s), any o	·
	s SMALL ENTITY state	us. See 37 CFR 1.27.	• •	<u> </u>	L ENTITY status. See 37 (
note: The Issue Fee an interest as shown by the	d Publication Fee (if req	ates Patent and Trademark	Office.	ine applicant; a regis	attorney or agent; or	the assignee or other party in
Authorized Signature				Date		
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This collection of inform an application. Confiden submitting the completed this form and/or suggesti	ation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this bu	CFR 1.311. The information U.S.C. 122 and 37 CFR USPTO. Time will vary urden, should be sent to the	on is required to obtain or 1.14. This collection is es depending upon the indice Chief Information Office Court Expension Control of the control of the court of	retain a benefit by the timated to take 12 movidual case. Any color, U.S. Patent and	ne public which is to file (a ninutes to complete, includ mments on the amount of Trademark Office, U.S. De	nd by the USPTO to process) ing gathering, preparing, and time you require to complete partment of Commerce, P.O.

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KLARQUIST SPARKMAN LLP ,121 S.W. SALMON STREET SUITE 1600 PORTLAND, OR 97204

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

ART UNIT

2624

DATE MAILED: 12/27/2007

PAPER NUMBER

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 857 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 857 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/622,284	HSU ET AL.
Notice of Allowability	Examiner	Art Unit
•		
·	Jayesh A. Patel	2624
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS (nerewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED ir or other appropriate commi GHTS. This application is s	n this application. If not included unication will be mailed in due course. THIS
. 🔀 This communication is responsive to 11/30/2007.		
2. X The allowed claim(s) is/are 22,24,26,29-32,64,65,67,69,72-	-75,78,79,81,83 and 85-91.	
 Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: 	der 35 U.S.C. § 119(a)-(d)	or (f).
 Certified copies of the priority documents have 	been received.	
Certified copies of the priority documents have	been received in Application	on No
Copies of the certified copies of the priority doc	cuments have been received	d in this national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file ENT of this application.	a reply complying with the requirements
 A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give 	tted. Note the attached EXA is reason(s) why the oath or	AMINER'S AMENDMENT or NOTICE OF declaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.	
(a) I including changes required by the Notice of Draftsperso	on's Patent Drawing Reviev	v (PTO-948) attached
1) Thereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the ne header according to 37 CF	ne drawings in the front (not the back) of R 1.121(d).
DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F	sit of BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note the DLOGICAL MATERIAL.
		·
Attachment(s)	E - Nada afta	Formal Datant Application
. ⊠ Notice of References Cited (PTO-892)		formal Patent Application
. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413), Mail Date
. ☑ Information Disclosure Statements (PTO/SB/08),	7. 🔲 Examiner's	Amendment/Comment
Paper No./Mail Date <u>See Continuation Sheet</u> . Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's	Statement of Reasons for Allowance
C. Diologica: material	9. 🗌 Other	
·	//	MINGGE WIN
	SUPERV	SOMY PATENT EXAMINER
U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06) No	tice of Allowability	Part of Paper No./Mail Date 2007121

Application/Control Number: 10/622,284

Art Unit: 2624

DETAILED ACTION

Information Disclosure Statement

- 1. Information disclosure statements submitted on Nov 30 2007, May 07 2007, Mar 03 2006 and Jul 30 2004 have been considered by the examiner.
- 2. Claims 1-21, 23, 25, 27-28, 33-60, 62-63, 66, 68, 70-71, 76-77, 80, 82, and 84 are cancelled from further prosecution.
- 3. Independent Claims 22, 26, 64, 69, 78 and 83 are allowed. Dependent Claims 24, 29-32, 65, 67, 72-75, 79, 81 and 85-91 are allowed being dependent on the independent claims.

Allowable Subject Matter

Non of the prior art on record teaches or fairly suggests the rules of the DC and the AC predictions such as if the top-left block, the left block and the top block are intra-coded, the selected DC predictor depends on respective DC values of the top-left block the left block, and the top block; if the top-left block is not intra-coded but the left block and the top block are, intra-coded, the selected DC predictor depends on the respective DC values of the top block and the left block; if the left block is not intra-coded but the top block is intra-coded, the selected DC. predictor is the DC value of the top block; if the top block is not intra-coded but the left block is intra-coded DC predictor is the DC value of the selected D.C predictor is the DC value of the left block; if the left block is not intra-coded and the top block is not

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intra-coded, D.C prediction is skipped from the current block; obtaining a DC value for the current block, wherein the obtaining comprises; if DC prediction is skipped for the current block, using the DC differential as the DC value for the current block; and if DC prediction is used for the current block, adding the selected DC predictor to the DC differential[[.III and using the DC value in reconstruction of the current block. as recited in Claims 22, 26, 64, 69,78 and 83. The closest prior arts of record US 5974184, US 5959674, US 20040141654 and US 6215905 shows the AC and DC predictions using the techniques of differencing and threshold but none of them select the DC and AC values as recited in the Claims 22, 26, 64, 69,78 and 83, therefore it is allowable subject matter. Dependent Claims 24, 29-32, 65, 67, 72-75, 79, 81 and 85-91 are allowed being dependent on the independent claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jayesh A. Patel whose telephone number is 571-270-1227. The examiner can normally be reached on M-F 7.00am to 4.30 pm (5-4-9). If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jingge Wu can be reached on 571-272-7429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/622,284 Page 4

Art Unit: 2624

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jayesh Patel 12/14/07

SUPERMENT PATENT EXAMINER

23/23

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KBR:kbr 11/30/07 3382-66128-01 809589 305652.01

	Attorney Docket Number	3382-66128-01
	Application Number	10/622,284
THE PARTY OF THE COLOR OF THE C	Filing Date	July 18, 2003
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	First Named Inventor	Hsu
BI AII DICAN	Art Unit	2624
	Examiner Name	Jayesh A. Patel

U.S. PATENT DOCUMENTS

Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
/JP/		5,835,145	11/10/1998	Ouyang et al.
/JP/		6,148,109	11/14/2000	Boon et al.
/JP/		6,347,116	2/12/2002	Haskell et al.
/JP/		6,571,019	5/27/2003	Kim et al.
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EXAMINER SIGNATURE:	/Jayesh Patel/	DATE CONSIDERED:	12/14/2007	

^{*} Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.

BCF:KBR:amc1 05/02/07 3382-66128-01 690877 305652.01

DEFORMATION DISCLOSURE STATEMENT BY APPLICANT

MAY 0 7 2007

Attorney Docket Number	3382-66128-01
Application Number	10/622,284
Filing Date	July 18, 2003
First Named Inventor	Hsu
Art Unit	2624
Examiner Name	Jayesh A. Patel

U.S. PATENT DOCUMENTS

number and the issue date. For published U.S. applications, provide the publication number and the publication date. For unpublished pending patent applications, provide the application number and the publication for unpublished pending patent applications, provide the application number and the filing date.

Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
/JP/		4,454,546	12-Jun-84	Mori
/JP/		4,691,329	1-Sep-87	Juri et al.
/JP/		4,796,087	3-Jan-89	Guichard et al.
/JP/		4,800,432	24-Jan-89	Barnett et al.
/JP/		4,849,812	18-Jul-89	Borgers et al.
/JP/		5,021,879	4-Jun-91	Vogel
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/JP/		5,539,466	23-Jul-96	Igarashi et al.
JPI		5,544,286	6-Aug-96	Laney

			
EXAMINER SIGNATURE:	/Jayesh Patel/	DATE CONSIDERED:	06/18/2007

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Art Unit	2624
Examiner Name	Jayesh A. Patel

U.S. PATENT DOCUMENTS

Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
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/JP/		5,666,461	9-Sep-97	Igarashi et al.
/JP/		5,668,932	16-Sep-97	Laney
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/JP/		6,563,953	13-May-03	Lin et al.

EXAMINER SIGNATURE:	/Jayesh Patel/	DATE CONSIDERED:	06/18/2007	

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Examiner Name	Jayesh A. Patel

U.S. PATENT DOCUMENTS

Copies of U.S. Patent documents do not need to be provided, unless requested by the Patent and Trademark Office. For patents, provide the patent number and the issue date. For published U.S. applications, provide the publication number and the publication date. For unpublished pending patent applications, provide the application number and the filing date.

Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
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/JP/		60/488,710	18-Jul-03	Srinivasan et al.
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Examiner's Initials*	Cite No. (optional)	Country	Number	Publication Date	Name of Applicant or Patentee
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/JP/		Europe	EP 0 830 029	18-Mar-98	Bosch
/JP/		Japan	JP 61205086 (abstract)	11-Sep-86	Mitsubishi Electric
/JP/		Japan	JP 3001688 (abstract)	8-Jan-91	Nippon Telegraph & Telephone
/JP/		Japan	JP 6078295 (abstract)	18-Mar-94	Mitsubishi Electric
/JP/		Japan	JP 7274171 (abstract)	20-Oct-95	Sharp

EXAMINER /Jayer SIGNATURE:	sh Patel/	DATE CONSIDERED:	06/18/2007

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Art Unit	2624	
Examiner Name	Jayesh A. Patel	

FOREIGN PATENT DOCUMENTS							
Examiner's Initials*	Cite No. (optional)	Country	Number	Publication Date	Name of Applicant or Patentee		
/JP/		Japan	JP 6292188 (abstract)	18-Oct-04	Matsushita Electric		
/JP/		Korea	KR 1003538510000 (abstract)	17-Jan-02	Elec. & Telecomm. Research Institute		
Examiner's Initials*	Cite No. (optional)		OTHER DOCUMENTS				
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					Dimensional Mesh Motion		

Initials*	(optional)	UTHER DOCUMENTS
/10/		Hsu et al., "A Low Bit-Rate Video Codec Based on Two-Dimensional Mesh Motion
/JP/		Compensation with Adaptive Interpolation," IEEE, Transactions on Circuits and Systems
		for Video Technology, Vol. II, No. 1, pp. 111-117 (January 2001).
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. 10	1.	"ITU-T Recommendation T.6: Facsimile Coding Schemes and Coding Control Functions
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•		Sjoberg et al., "Run-length Coding of Skipped Macroblocks," ITU-T SG16/Q.6 VCEG-
/JP/		M57, pp. 1-5 (April 2001)

EXAMINER SIGNATURE:	/Jayesh Patel/	DATE CONSIDERED:	06/18/2007

Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not
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FOR PLATION DISCLOSURE STATEMENT BY APPLICANT

Attorney Docket Number	3382-66128-01	
Application Number	10/622,284	
Filing Date	July 18, 2003	
First Named Inventor	Hsu	
Art Unit	2621	
Examiner Name	Jose L. Couso	

U.S. PATENT DOCUMENTS

Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
/JP/		4,661,849	04/28/1987	Hinman
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Attorney Docket Number	3382-66128-01
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Filing Date	July 18, 2003
First Named Inventor	Hsu
Art Unit	2621
Examiner Name	Jose L. Couso

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information disclosure statement
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BCF/KBR:ame1 11/30/07 727036 305652.01 **PATENT**

Attorney Reference Number 3382-66128-01 Application Number 10/622,284

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Hsu et al.

Application No. 10/622,284

Filed: July 18, 2003 Confirmation No. 4607

INTRAFRAME AND INTERFRAME

INTERLACE CODING AND DECODING

Examiner: Jayesh A. Patel

Art Unit: 2624

Attorney Reference No. 3382-66128-01

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CERTIFICATE OF PACSIMILE

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being facsimile transmitted to fax number (571) 273-8300 on the date shown holow.

Attorney or Agent for Applicant(s)_

Date Transmitted November 30, 2007

AMENDMENT

This responds to the Office action dated July 2, 2007 ("Office action"). Please amend the referenced application as follows:

Amendments to the Claims are reflected in the listing of claims, which begins on page 2.

Remarks begin on page 13.

Please Enter the Amendment
JP 12/14/07

Applicant(s)/Patent Under Application/Control No. Reexamination 10/622,284 HSU ET AL. **Notice of References Cited** Art Unit Examiner Page 1 of 1 2624 Jayesh A. Patel

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